

## AUTONEGOTIATION BETWEEN 1000BASE-X AND 1000BASE-T

### ABSTRACT OF THE DISCLOSURE

An autonegotiation circuit for gigabit per second Ethernet networks includes a switch with 1000BASE-X media. A gigabit interface connector (GBIC) module connects the switch to the device and allows autonegotiation. The switch includes a first GBIC interface with a transmitter and a receiver. The GBIC module includes a second GBIC interface with a transmitter and a receiver and a first copper interface with a transmitter and a receiver. The device includes a second copper interface with a transmitter and a receiver. The GBIC module waits for non-zero configuration ordered sets from the switch. The GBIC module stores configuration information from the switch and then sends FLP bursts to the device. 1000BASE-T autonegotiation is completed and a link is established between the GBIC module and the device. The GBIC module stores second configuration information from the device. Then, the GBIC module completes 1000BASE-X autonegotiation and establishes a link.

000005-5059-Attorney Docket No.